

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined
N/A=Not Applicable

Product: COIL CLEANER

Manufacturer: ESTEAM

Flammability: 0

Chem. Name: N/A

Trade Name: Coil Cleaner

Reactivity: 0

Chem. Family: Mineral acid

Use: Heat Exchanger cleaner

Health: 2

Protection: COR

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

HAZARDOUS INGREDIENTS

CAS

% WT

HAZARD DATA

EXPOSURE LIMITS (TLV)

Phosphoric Acid 85%

7664-38-2

45-55

LD50 1530 mg/kg (oral-rat)

1 mg/M3

PHYSICAL DATA

Physical State: Liquid

Boiling Point (C): 100

Solubility in Water: Excellent

Evaporation Rate: N/A

Freeze/Thaw

Stable: Doesn't freeze

Percent Volatile (vol): N/D

Odor/Appearance: Clear, purple and odorless

Freezing Point (C): 0

Ph (undiluted): 0.5

Specific Gravity: N/D

Vapor Pressure: N/A

FIRE & EXPLOSION HAZARD

Flammability: N

Means of Extinction: Water

Special Procedures: Spray water to cool and control vapors

Explosion Sensitivity to Impact: N/A

Chemical Sensitivity to Static Discharge: N/A

Flashpoint (C) & Method: None

Conditions: N/A

Hazardous Combustion Products: Phosphorous oxide

Upper Explosion Limit (% by vol): N/A

Lower Explosion Limit (% by vol): N/A

Auto-ignition: N/A

Rate of Burning: N/A

Explosive Power: N/A

Less than 5 Lt classified as Limited Quantities.

TDG/WHMIS: Phosphoric Acid Liquid Class 8, UN# 1805, PG III / C, D2B

REACTIVITY DATA

Chemical Stability: Stable

Hazardous Decomposition Product: None

Incompatible Substances:

Bases, sulphides, phosphides, cyanides, acetylides, fluorides, silicocides and carbides.

TOXICOLOGICAL PROPERTIES

Route of Entry - Skin Contact: Y
Route of Entry - Skin Absorption: N
Route of Entry - Eye Contact: Y
Route of Entry - Inhalation: Y
Route of Entry - Ingestion: Y

Reproductive Effects Y/N: N
Carcinogenicity Y/N: N
Mutagenicity Y/N: N
Teratogenicity Y/N: N/D
TLV: N/D

Effects of Overexposure:

Acute Effects:

May cause severe skin irritation. If splashed in eyes, may cause severe burns or permanent eye damage. Inhalation of mist may cause nose and throat irritation. Ingestion may cause burns to the mouth and throat, pain in the stomach, nausea, vomiting, diarrhea and convulsions. In severe cases collapse and death.

Chronic Effects:

Skin contact may cause dermatitis.

PREVENTATIVE MEASURES

Gloves: Impervious
Eyes: Safety glasses

Footwear: Boots
Respirator: N/A

Clothing: Resistant overalls
Other: N/A

Recommended Engineered Controls:

Use with adequate ventilation.

Leak & Spill Procedures:

Recover liquid into a sealed plastic container for disposal. Neutralize area with soda ash or lime and flush with water.

Waste Disposal Methods:

According to federal, provincial and municipal regulations.

Special Handling Procedures:

Store in a plastic or acid resistant container in a clean dry area.

FIRST AID MEASURES

Inhalation: Move person to fresh air. If necessary give artificial respiration or oxygen. Call doctor if in distress.

Ingestion: Do not induce vomiting. Have victim rinse mouth thoroughly with water. Give 8 oz of water to drink. Immediately transport victim to hospital.

Eye Contact: Immediately flush eyes with luke warm water for at least 30 minutes, holding the lid open. Get medical attention.

Skin Contact: Immediately flush affected area with running water for at least 20 minutes. Remove contaminated clothing shoes and bands and launder.

Prep./Revised Date: January 8, 2010

Prepared By: R. Russell

Source Material: Manufacturer's MSDS

Emergency Response: 1-613-996-6666 (Transport Emergencies)

Mailing Address: Esteam Manufacturing Ltd.
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This information is complete to the best of our knowledge, however, users are encouraged to make their own investigations into the suitability of the information to their particular purposes. READ THE LABEL before using this or any product, and take any necessary precautions, dictated by the label or by common sense to ensure that your health is protected.